

Appl. No. 10/782,655

This listing of claims will replace all prior versions, and listings, of claims in the application.

#### LISTING OF CLAIMS

1. (original) A self-closing prestressed tubular belt with a longitudinal joint,  
5 comprising:
  - a first layer having tension forces that are variable along its width; and
  - a second layer that is attached to the first layer having compression  
forces that are variable along its width, so that the belt will curl  
around an axis defined by a length of the belt with a predetermined  
10 shape and a predetermined force at the longitudinal joint.
2. (original) The tubular belt according to claim 1, wherein:
  - the first layer is an inner elastic layer having an unstressed width that is  
less than its width in the tubular belt; and
  - 15 the second layer is an outer elastic layer having an unstressed width that  
is greater than its width in the tubular belt.
3. (original) The tubular belt according to claim 1, wherein the first layer  
comprises a central portion having tension forces that are variable along its  
20 width, and a peripheral portion having no tension forces.
4. (original) The tubular belt according to claim 1, wherein the first layer has  
tension forces that are stepwise variable along its width in step regions, the  
tension forces in any step region being constant, and the tension forces in  
25 adjacent step regions are different from one another.

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5. (original) The tubular belt according to claim 1, wherein the first layer comprises one or more attached anchor strips that are configured to be in a force-holding relationship to a tool.

5 6. (previously presented) A self-closing prestressed tubular belt with a longitudinal joint, comprising:

a longitudinal axis that defines a longest dimension of the belt and is parallel with a direction of motion when the belt is used;

10 a transverse axis that defines a belt width that is perpendicular to the longitudinal axis when the belt is flattened, the belt having outer edges at the extremes of the transverse axis and having a central portion that is in between the outer edges but does not include the outer edges; and

15 a height axis that defines a belt thickness that is perpendicular to the longitudinal axis and the transverse axis;

a first layer that is prestressed; and

20 a second layer having a depression solely in the central portion and along the longitudinal axis, the depression reducing the belt thickness along the height axis that is permanently filled with the first prestressed layer.

7. (previously presented) A self-closing prestressed tubular belt with a longitudinal joint, comprising:

25 a longitudinal axis that defines a longest dimension of the belt and is parallel with a direction of motion when the belt is used;

a transverse axis that defines a belt width that is perpendicular to the longitudinal axis when the belt is flattened, the belt having outer edges at the extremes of the transverse axis and having a central

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- portion that is in between the outer edges but does not include the outer edges; and
- a height axis that defines a belt thickness that is perpendicular to the longitudinal axis and the transverse axis;
- 5 a first layer that is prestressed; and
- a second layer, wherein the first layer is joined to the second layer only in the central region so that the central region of the two joined layers is thicker than either the first or second layer alone.
- 10 8. (previously presented) A self-closing prestressed tubular belt with a longitudinal joint, comprising:
- a longitudinal axis that defines a longest dimension of the belt and is parallel with a direction of motion when the belt is used;
- 15 a transverse axis that defines a belt width that is perpendicular to the longitudinal axis when the belt is flattened, the belt having outer edges at the extremes of the transverse axis and having a central portion that is in between the outer edges but does not include the outer edges; and
- a height axis that defines a belt thickness that is perpendicular to the longitudinal axis and the transverse axis;
- 20 a split zone on a lower portion of the belt when it is in an opened flattened state, wherein the belt is divided into one or more flaps along a dividing plane that is defined by the longitudinal axis and the transverse axis, wherein a plane passing through a proximate edge
- 25 of the one or more flaps attached to the belt and an opposite distal edge of the one or more flaps is parallel to the dividing plane.

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9. (previously presented) A self-closing prestressed tubular belt with a longitudinal joint, comprising:

a split zone on a lower portion of the belt wherein the belt is divided into one or more flaps along a dividing plane parallel to a surface of the belt;

wherein the flaps are located on a bottom portion of the belt, the tubular belt further comprising an additional belt component used to fill a gap between edges of the flaps, the gap being created by prestressing of the belt in a direction parallel to a plane of the belt.

10. (original) A self-closing prestressed tubular belt with a longitudinal joint, wherein a bending stiffness of the belt in a plane lying through an interlock of the joint and a centroid of a section of the belt is equivalent to a similarly constructed tubular belt having no longitudinal joint.

11. (currently amended) A self-closing prestressed tubular belt with a longitudinal joint, the belt comprising means permitting a bending of the belt in an operable condition ~~being configured to be operable when bent~~ along its route, the route having a curvature radius of less than three hundred times a diameter of the belt.

12 - 26. (canceled).

27. (new) The self-closing prestressed tubular belt according to claim 11, wherein the route has a curvature radius of less than fifty times the diameter of the belt.